

Title (en)  
TILTROTOR AIRCRAFT HAVING A DOWNWARDLY TILTABLE AFT ROTOR

Title (de)  
KIPPROTORFLUGZEUG MIT EINEM NACH UNTEN KIPPBAREN HINTEREN ROTOR

Title (fr)  
AÉRONEF À ROTORS BASCULANTS AYANT UN ROTOR ARRIÈRE INCLINABLE VERS LE BAS

Publication  
**EP 3466812 B1 20190724 (EN)**

Application  
**EP 18195579 A 20180919**

Priority  
US 201715724649 A 20171004

Abstract (en)  
[origin: EP3466812A1] A tiltrotor aircraft (10) has a vertical takeoff and landing flight mode and a forward flight mode. The tiltrotor aircraft (10) includes a longitudinally extending fuselage (12) with a wing (14) extending laterally therefrom having oppositely disposed wing tips (14c, 14d) distal from the fuselage (12). Tip booms (16a, 16b) respectively extend longitudinally from the wing tips (14c, 14d). Forward rotors (28a, 28b) are coupled to the forward ends (18a, 18b) of the tip booms (16a, 16b). The forward rotors (28a, 28b) are reversibly tiltable between a vertical lift orientation, wherein the forward rotors (28a, 28b) are above the tip booms (16a, 16b), and a forward thrust orientation, wherein the forward rotors (28a, 28b) are forward of the tip booms (16a, 16b). An aft rotor (28c) is coupled to the aft end (12b) of the fuselage (12). The aft rotor (28c) is reversibly tiltable between a vertical lift orientation, wherein the aft rotor (28c) is below the fuselage (12), and a forward thrust orientation, wherein the aft rotor (28c) is aft of the fuselage (12).

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**B64C 29/0033** (2013.01 - EP US); **B64C 15/12** (2013.01 - US); **B64C 27/52** (2013.01 - US)

Cited by  
EP4086177A1; EP3868660A1; EP4230523A1; CN114340998A; EP4041633A4; EP4097004A4; USD945947S; USD1009696S; US11472546B2; EP3932805A1; US11554865B2; US11772773B2; US11975830B2

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